**Amy E. Kendig** aekendig@gmail.com • amykendig.rbind.io

**Education**

**PhD in Ecology, Evolution, and Behavior** 2011 – 2017

University of Minnesota, St. Paul, MN

Minor in Risk Analysis for Introduced Species and Genotypes

Thesis: “Host diet and pathogen diversity: How soil nutrients affect plant virus interactions”

**BS in Biology** 2007 – 2011

Georgia Institute of Technology, Atlanta, GA

**Additional Training**

NSF Cyber Carpentry: Data Life-Cycle Training, Chapel Hill, NC (accepted) July 2019

Enhancing Linkages between Math and Ecology, Kellogg Biological Station, MI June 2013

Ecology and Evolution of Infectious Diseases Workshop, Lansing, MI May 2012

**Professional Experience**

**Postdoctoral Research Associate**

Agronomy Department, University of Florida, Gainesville, FL 2018 – present

**PhD Candidate**

Graduate Research Assistant, Minnesota Invasive Terrestrial Plants and Pests Center 2017

Graduate Teaching Assistant, College of Biological Sciences 2014 – 2017

Graduate Program Fellow, Department of Ecology, Evolution, and Behavior 2016

NSF Graduate Research Fellow 2013 – 2014

NSF IGERT Fellowin Risk Assessment of Introduced Species and Genotypes 2011 – 2013

**Undergraduate Researcher**

Department of Biology, Georgia Institute of Technology, Atlanta, GA 2009 – 2011 NSF REU, St. Olaf College, Northfield, MN 2010

NSF REU, University of California, Santa Barbara, CA 2009

SURE Fellow, Emory University, Atlanta, GA 2008

**Peer-Reviewed Publications**

Pell, B., **A. E. Kendig**, E. T. Borer, and Y. Kuang. 2019. Modeling nutrient and disease dynamics in a plant-pathogen system. *Mathematical Biosciences and Engineering* 16: 234-264. <http://dx.doi.org/10.3934/mbe.2019013>

**Kendig, A. E.**, E. T. Borer, C. E. Mitchell, A. G. Power, and E. W. Seabloom. 2017. Characteristics and drivers of plant virus community spatial patterns in US west coast grasslands. *Oikos* 126: 1281-1290. <http://dx.doi.org/10.1111/oik.04178>

Seabloom, E. W., E. T. Borer, K. Gross, **A. E. Kendig**, C. Lacroix, C. E. Mitchell, E. A. Mordecai, and A. G. Power. 2015. The community ecology of pathogens: coinfection, coexistence and community composition. *Ecology Letters* 18: 401-415. <http://dx.doi.org/10.1111/ele.12418>

MacDougall, A. S., J. R. Bennett, J. Firn, E. W. Seabloom, E. T. Borer, E. M. Lind, J. L. Orrock, W. S. Harpole, Y. Hautier, P. B. Adler, E. Cleland, K. Davies, B. Melbourne, S. M. Prober, J. D. Bakker, P. A. Fay, V. L. Jin, **A. Kendig**, K. J. La Pierre, J. Moore, J. Morgan, and C. J. Stevens. 2014. Anthropogenic-based regional-scale factors most consistently explain plot-level exotic diversity in grasslands. *Global Ecology and Biogeography* 23: 802-810. <http://dx.doi.org/10.1111/geb.12157>

**Manuscripts in Prep**

**Kendig, A. E.**, E. T. Borer, E. N. Boak\*, T. C. Picard\*, and E. W. Seabloom. Host nutrient supply mediates facilitation and competition between plant viruses. *In revision* for *Ecology.* <https://www.biorxiv.org/content/10.1101/761254v1>

\*undergraduate mentee

**Kendig, A. E.**, S. Luke Flory, Erica M. Goss, Robert D. Holt, Keith Clay, Philip F. Harmon, Brett R. Lane, Ashish Adhikari, and Christopher M. Wojan. The Role of Pathogens in Plant Invasions. *In review* for Anna Traveset and David M. Richardson, editors. Plant Invasions: The Role of Biotic Interactions. CAB International Press. Wallingford, UK.

Goss, E. M., **A. E. Kendig**, A. Adhikari, B. Lane, N. Kortessis, R. D. Holt, K. Clay, P. F. Harmon, and S. L. Flory. Disease in invasive plant populations. *In review* for *Annual Review of Phytopathology*.

**Grants and Awards**

Thompson Earth Systems Institute Outreach Grant ($665) 2018

Travel Award, Dept. of EEB, UMN (3 awards, $2,068) 2013 – 2018

Alexander and Lydia Anderson Research Grant, UMN ($3,000) 2015

Research Award, Dept. of EEB, UMN (2 awards, $3,944) 2014 – 2015

National Science Foundation Graduate Research Fellowship Program ($30,000) 2013 – 2014

Research and Stipend Award, HHMI Research Mentor Program, UMN ($3,000) 2014

Research Award, ISG-IGERT Program, UMN ($2,000) 2013

National Science Foundation Integrative Graduate Education and Research Traineeship

(IGERT) in Risk Assessment of Introduced Species and Genotypes (ISG) ($60,000) 2011 – 2013

Georgia HOPE Scholarship (full undergraduate tuition) 2007 – 2011

William-Walls Life Science Award ($500) 2011

Travel Award, ACC Meeting of the Minds (travel, room, and board) 2011

President’s Undergraduate Research Award ($1000) 2010

Ryder Roundtable Scholarship ($10,000) 2007

**Invited Presentations**

Panelist, Community Coding Groups, ResBaz (Research Bazaar), Gainesville, FL 2019

Seminar, Department of Plant Pathology, University of Minnesota, St. Paul, MN 2018

Seminar, INRA Plant Pathology Unit, Avignon, France 2017

Brown Bag Seminar, Kellogg Biological Station, Michigan State University, Hickory Corners, MI 2017

Interview, University of Florida, Gainesville, FL 2017

Interview, Stanford University, Stanford, CA 2017

Five Minute Thesis Presentation, UMN SIAM Minneapolis, MN 2016

**Co-Organized Symposia**

*Invasive Species and Infectious Diseases: Interactive Effects in Ecological Communities*. 2019

Symposium, Ecological Society of America (ESA) Annual Meeting, Salt Lake City, UT. (accepted)

*When a Raindrop is a Tsunami: Impacts of Disturbance on Plant-Associated Microbial Communities*.2018

Organized Oral Session, ESA Annual Meeting: New Orleans, LA.

*The Introduction of Microbes: For Better or for Worse*. 2013

University of Minnesota ISG-IGERT Annual Symposium: St. Paul, MN

**Contributed Presentations**

Ecological Society of America Annual Meeting: Louisville, KY (talk)2019

Florida Exotic Pest Plant Council Annual Symposium: Daytona Beach Shores, FL (poster) 2019

Emerging Pathogens Institute Research Day:Gainesville, FL (poster) 2019

North American Invasive Species Management Association Conference: Rochester, MN (talk) 2018

Ecological Society of America Annual Meeting: New Orleans, LA (talk) 2018

Population Biology of Vector-borne Diseases Symposium: Athens, GA (poster) 2018

Jacques Monod Conference: Roscoff, France (talk) 2017

Ecological Society of America Annual Meeting: Ft. Lauderdale, FL (talk) 2016

5th International Conference on Infectious Disease Dynamics: Clearwater Beach, FL (poster) 2015

Ecological Society of America Annual Meeting: Minneapolis, MN (talk) 2013

Ecological Society of America Annual Meeting: Austin, TX (poster) 2011

Atlantic Coast Conference Meeting of the Minds: Miami, FL (poster) 2011

Georgia State University Psychology Undergraduate Research Conference: Atlanta, GA (poster) 2008

**Teaching and Mentoring**

Guest Lecture, Biological Invaders, University of Florida 2018

Teaching Assistant, Toward Conquest of Disease, University of Minnesota (2 semesters) 2016 – 2017

Teaching Assistant, Ecology, University of Minnesota (2 semesters) 2015 – 2016

Teaching Assistant, Foundations of Biology II, University of Minnesota (1 semester) 2014

Teaching Assistant, Honors Biological Principles, Georgia Tech (1 semester) 2010

Teaching Assistant, Freshman Seminar, Georgia Tech (1 semester) 2009

University of Florida undergraduate mentees 2018 – present

Liliana Benitez (NSF REU, visiting student from New College of Florida), Zobia Chanda, Trevor Green, Miriam Higginbotham, Zadok Jollie, Daniela Menendez, David Notman, Teresa Orosa, Shannon Regan, Penny Reif, Callie San Antonio, Vida Svahnstrom (NSF REU, visiting student from St. Andrews), Ryan Truesdell

University of Minnesota undergraduate mentees 2013 – 2017

Emily Boak (directed research), Ryan Campbell, Nicholas Cupery (honors thesis), Casey Easterday (NSF REU), Jessica

Lettelleir, Timothy Martiin, Tashina Picard (HHMI Transfer Student Program, UROP Program), Kurra Renner, Luc

Robichaud, Alexis Rogers

**Science Outreach and Education**

Organizer, *EDDMapS Plant Damage* present

Collect citizen science data on invasive plant infectious diseases with EDDMapS.org.

Organizer, *Coding in the Environmental Sciences Workshops* 2017 – present

K-12 students to learn about environmental science research and basic coding.

Volunteer, *Collaborative Curriculum Design for Invasive Species Education* 2019

Helped Florida K-12 teachers design lesson plans that incorporate authentic science.

Volunteer, *Girls Who Code* 2016 – 2017

Mentored K-12 students learning how to code and build a smartphone app.

Curriculum Developer and Teacher, *Market Science* 2015 – 2017

Science demonstrations at local farmer’s markets and events.

Guest Teacher, *Heritage Middle School* and *Southside Family Charter School* 2011 – 2017

Taught lessons on plant disease, population growth, and DNA extraction.

Science Fair Judge (5x) 2012 – 2016

Co-Producer, *Biodiversity Briefs Podcast Series* 2015

<https://cbs.umn.edu/blogs/cbs-connect/biodiversity-briefs-podcast-series-launches>

**Service and Leadership**

Manuscript reviewer: *Ecology and Evolution, Ecology Letters, Fungal Ecology, Journal of Animal Ecology, Journal of Applied Ecology*, *Land Degradation and Development, Proceedings of the Royal Society B*

Co-Organizer, R-Ladies Gainesvillepresent

*Sessions led: book club discussion, Introduction to R, Docker and RStudio*

Invasion Ecology Student Presentation Award Judge, Ecological Society of America 2018

Undergraduate Research Opportunities Program Committee, UMN 2016

Friday Noon Seminar Planning Committee, UMN Department of EEB2013 – 2014, 2016

Sexual Harassment Complaint Liaison, UMN Department of EEB 2015 – 2016

Volunteer Coordinator, UMN TeachingSMART 2012 – 2014

Graduate Student President Committee, UMN Department of EEB 2012 – 2013

Travel Grant Committee, UMN Department of EEB 2012

Council of Graduate Students Representative, UMN Department of EEB 2011 – 2012

Executive Committee Student Representative, UMN IGERT 2011 – 2012